

LIBERTA ORIGINAL 102



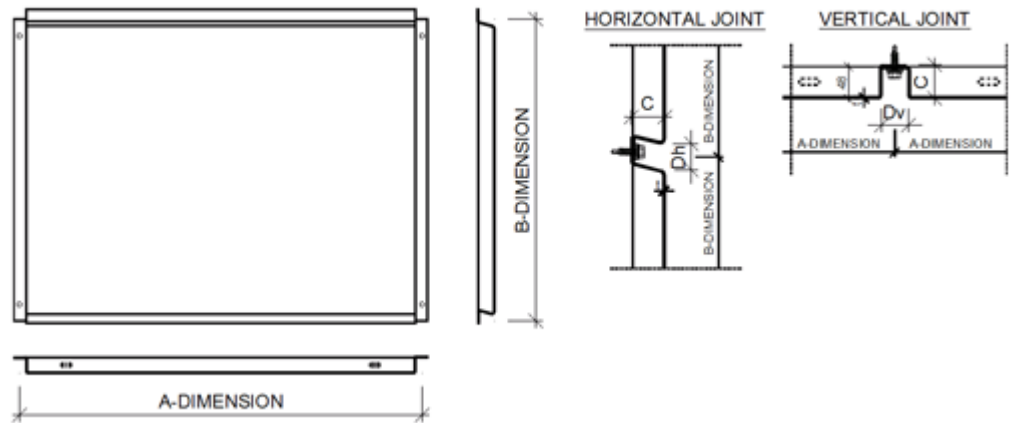
Create a genuine and distinct layout with the Liberta™ original 102 rainscreen panel for ventilated steel and aluminium facade systems.

Ruukki® emotion

Also available with perforation and backlighting.

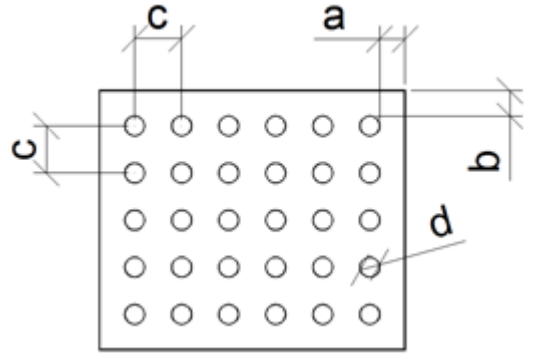
The information on our website is accurate to the best of our knowledge and understanding. Although every effort has been made to ensure accuracy, the company cannot accept any responsibility for any direct or indirect damages resulting from possible errors or incorrect application of the information of this publication. We reserve the right to make changes.

PROPERTIES



Model name	Liberta original 102
Depth	20, 25, 30 mm
Horizontal joint	20, 25, 30 mm
Vertical joint	20, 25, 30 mm
Fastening holes shape	Round
Ventilation hole shape	Oval
Fastening holes diameter	7 mm
Ventilation holes size	5 x 15 mm
Fastening style	Standard fix
Starting fillet	Not required

PERFORATION LAYOUT

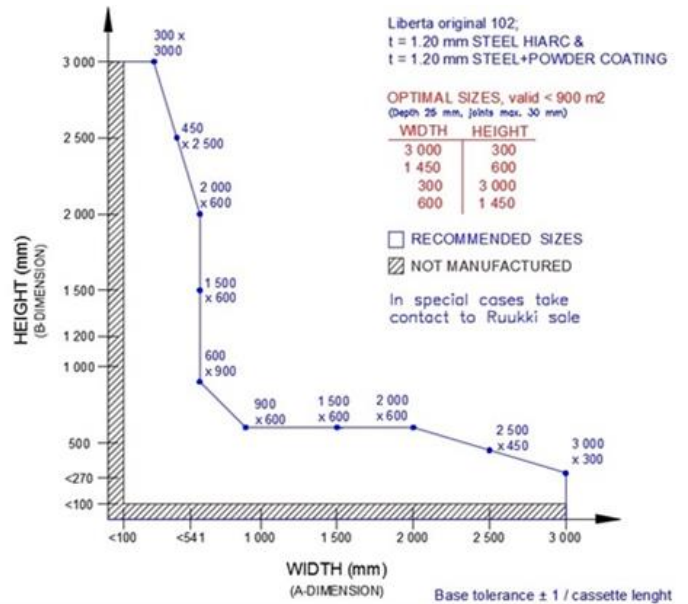


Dimension/hole	mm
a	≥10
b	≥10
c	d+15, d+25, d+30
d	12, 16, 20, 30

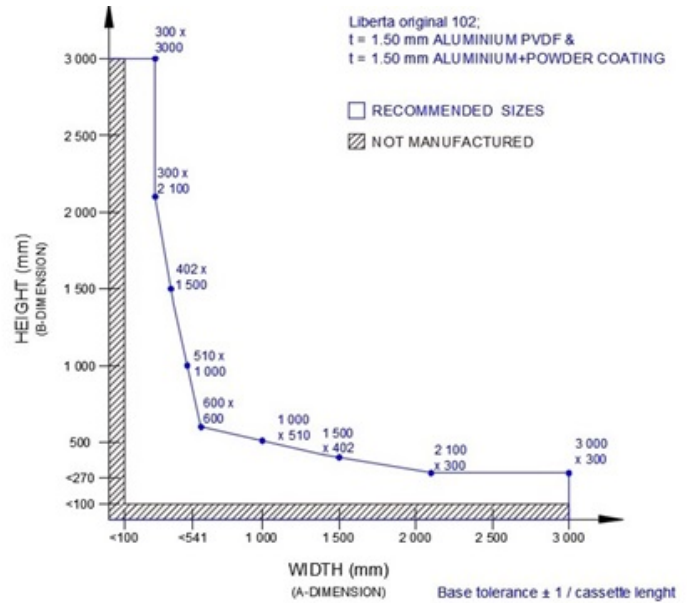
Symmetrical perforation: Fully perforated in symmetrical square layout. Only 1 hole size (d) and distance (a, b, c) per product.

Art perforation: Fully or partly perforated in freely chosen locations. All hole sizes (d) and distances (c) available per product.

MATERIAL STEEL 1.20 MM, PANEL SIZES



MATERIAL ALUMINIUM 1.50 MM, PANEL SIZES



MATERIALS

MATERIALS

Material	Material thickness (mm)	Weight (kg/m ²)	Surface treatment	Available with perforation	Stock material	Reaction to fire
Steel	1.2	11.6	GreenCoat Hiarc		x	A1
	1.2	11.6	Powder coating	x	x	A2 - s1, d0
Aluminium	1.5	5.1	Powder coating	x	-	-
	1.5	5.1	PVDF coating	-	-	-
Rheinzink	1.0	7.2	Pre-patinated (no coating)	x	-	A1
Copper, Brass & Bronze	1.0		Pre-patinated (no coating)	x	-	A1
	1.5		Pre-patinated (no coating)	x	-	A1

Aluminium (Brushed design)	1.5	5.1	Brushed with (semi) transparent coating	x	-	-
Aluminium (Pattern-painted)	1.5	5.1	Painted (multilayer coating)	x	-	-
	2.0	6.8	Painted (multilayer coating)	x	-	-
Stainless steel	1.0	8.0	Natural matt, bead blasted finish + oxidizing (steel grade 304, 316)	x	-	A1
	1.0	8.0	Embossed pattern, oxidizing + brushed finish (steel grade 304, 316)	-	-	A1
	1.0	8.0	Natural matt, brushed finish (4N) (steel grade 304, 316)	x	-	A1

COLOURS & COATINGS

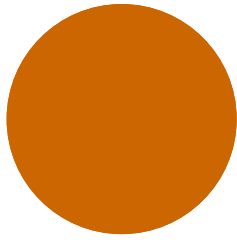
COATINGS

Colour chart	Coating	Colour
Standard	HIARC	RR20, RR21, RR23, RR40, RR41, RR42, RR43
	HIARC Matt	RR40, RR41, RR45
Colourful	HIARC & Powder paint	RR11, RR22, RR24, RR26, RR29, RR30, RR31, RR32,RR33, RR34, RR35, RR36, RR37, RR44, RR45, RR750
Unique	HIARC & Powder paint	RAL and NCS colours available by request

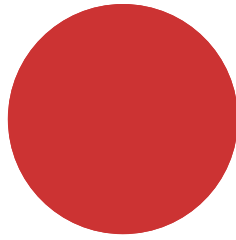
Also other coating types (e.g. anti-graffiti) are available upon request (non-stock material).

Minimum order sizes:

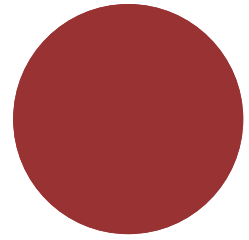
- Standard chart: No limitations
- Colourful & unique chart: HIARC 900m²; Powder paint 100m²



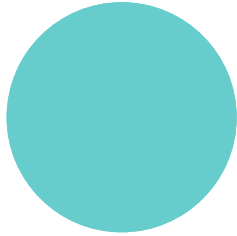
RAL 2000



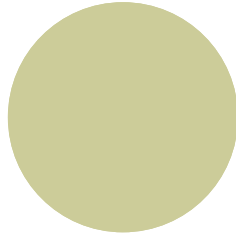
RAL 2001



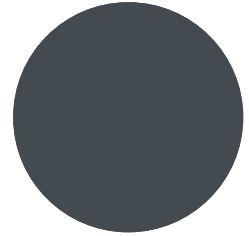
RAL 3003



RAL 6027



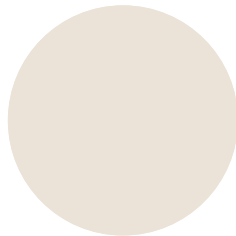
RAL 6019



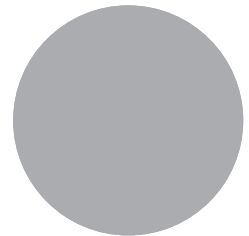
RR23 DARK GREY



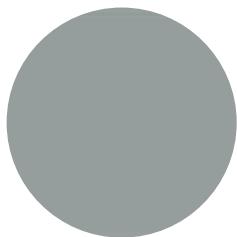
RR 11 SPRUCE GREEN



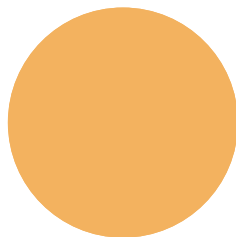
RR20 WHITE



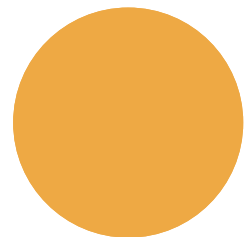
RR21 LIGHT GREY



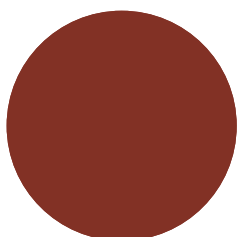
RR22 GREY



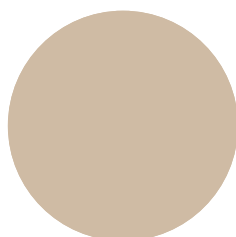
RR24 LIGHT YELLOW



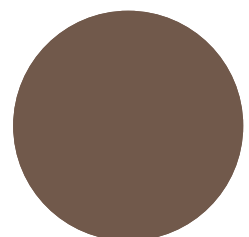
RR26 YELLOW



RR29 RED



RR30 LIGHT BROWN



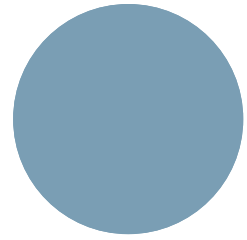
RR31 BROWN



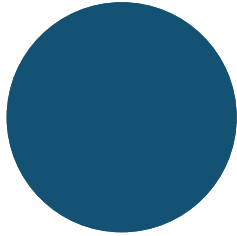
RR32 DARK BROWN



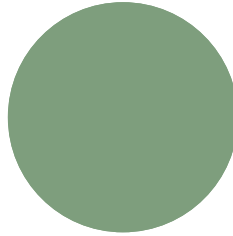
RR33 BLACK



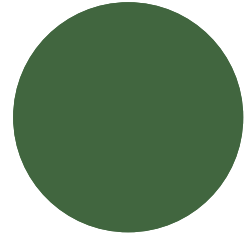
RR34 LIGHT BLUE



RR35 BLUE



RR36 LIGHT GREEN



RR37 GREEN



RR40 SILVER MATT



RR41 DARK SILVER MATT



RR42 GOLD



RR43 COPPER



RR44 METALLIC BLUE



RR45 METALLIC GRAPHITE



RR750 TILE RED

ACCESSORIES

ACCESSORIES

Facade cladding system completed with flashings, fasteners and support studs provides a fully finished facade, as well easy and quick installation.



07 JUN, 2017

EN_Cladding_Accessories_09_2019

PDF, 3.38 MB

DESIGN TOOLS

DESIGN TOOLS

To make both architectural and structural design work easier with accurate product information in 3D form, Ruukki offers a selection of CAD / BIM -objects and software tools to be downloaded from the Software Toolbox portal.

READY MODELLED BIM OBJECTS

Download objects for ArchiCAD

Download objects for Revit

DETAIL DRAWINGS (.DWG)



06 MAY, 2016

Ruukki_Liberta_rainscreen_panels_detail_drawings_DWG

ZIP, 3.34 MB

DETAIL DRAWINGS (.PDF)



06 MAY, 2016

Ruukki_Liberta_rainscreenpanels_design_manuals_PDF

ZIP, 1.18 MB



06 MAY, 2016

Ruukki_Liberta_rainscreen_panels_detail_drawings_PDF

ZIP, 8.87 MB

INSTRUCTIONS

ORDER FORMS



21 OCT, 2019

Ruukki Liberta CorTen rainscreen panels order form
XLSM, 2.61 MB



06 MAY, 2016

Ruukki_Liberta_rainscreen_panels_order_forms_XLS
XLSM, 3.42 MB

PACKAGING

The panels are delivered to the installation site in thin plastic-protected wooden boxes. Basic structure of the package is always same. Different package solutions are available for different needs. The package solutions are dependent also on delivery area.

STORING AND HANDLING

The number of the panels must be checked upon delivery. The panels can be stored in their packages. The opened packages should be protected from moisture. The panels must be handled properly to prevent any damages. Cutting and any other machining of the panels must be performed using appropriate tools to ensure work safety and a fault-free result.

INSTALLATION

Installation should be planned at an early stage. This is important to ensure that the ordered panels arrive at the site in the correct sequence.

Before installation, the project-specific plans should be reviewed, especially the starting height, gap edges, eaves, corner details, panel support structures and fastening methods as well as the number of fasteners. There must be an adequate number of measurement points in the panel surface both in horizontal and in vertical direction to ensure that the vertical and horizontal joints are the same width throughout the building. After the measurement lines have been checked, the installer marks the starting modules for the first panel on both sides of a corner in both vertical and horizontal direction. If necessary, straightening is performed. The straightness of the lines is checked using e.g. laser, and color wire markings and alignment board is used. The levelness of the wall is checked before starting the installation. There should be no measurement deviations in support studs for the width of one panel.

Before installation, the protective films are removed from the panel joint area. The film is removed in the center area of the panel only when the panel can no more be damaged during installation. Special attention must be paid to powder coated panels because they do not consist protective film.

The panels are fastened in steel sheet metal support studs using the fasteners specified by the designer. It is recommended to include the studs in the panel contract and install them at the same time as the panels. When installing frame etc. flashings, ensure that the functionality of the structure (ventilation, water removal, etc.) is not disturbed. So called storm flashings must be used to prevent water that is rising due to the wind pressure from gaining access to the structures. Connections to other structures should always be made using cover flashings, not gasket material.

Hot-shearing or tools producing sparks must not be used to prevent damage to the paint-coating. Angle grinders, for instance, must not be used as cutting tools. Drill shavings and other impurities must be brushed or, if necessary, washed away immediately after the work. Absolute carefulness both during the work and during the planning stage ensures the best possible results.

Two or (preferably) three installers are required. The panels should be lifted from the vertical sides. Lifting from the horizontal side may open the folded panel edges. The manufacturer is not responsible for the quality of the installation work.

INSTALLATION PHASES

INSTALLATION PLAN

The following is checked at the site according to the installation plan:

- Positions of the panels
- Module lines
- Starting height
- Positions of window and door openings in the facade
- Corners

LEVELNESS OF THE SUBSTRUCTURE

The levelness of the facade substructure is checked using e.g. alignment wire and laser measurement. The results are marked in a measurement protocol.

JOINT FLASHINGS

The joint flashings under the support studs are installed (e.g. plinth flashings).

SUPPORT STUDS

Support studs are installed at the panel joints and in the middle of the panels at distances of maximum 700 mm (recommendation). The number and type of the fasteners are specified by the designer. Both flanges of the support studs are fastened to the substructure according to the plan. At this stage the facade substructure is straightened according to the measurement protocol results (if necessary). Joints of the support studs should always be located at the supports. The starting height of the support studs is determined so that the bottom edge of the lowest panel row can be steadily fastened to the substructure and the stud is not visible under the lowest panel line. Adequate air passage should be left between the plinth and the lowest panel row.

JOINT FLASHINGS

The flashings are installed on top of the support studs.

PANEL INSTALLATION

The panels are fastened to the support studs by their outwards-turned flanges. The installing of the panel is started at the bottom left corner and continued towards the top right corner.

MAINTENANCE

SUSPENSIONS

Suspensions should be avoided in the facade. If absolutely necessary, the supports for the suspension must be placed at the vertical or horizontal joint all the way to the substructure or frame structure.

FACADE MAINTENANCE - FASTENERS

Panel fasteners must be checked during maintenance work. To check the health of the fasteners, open a few fasteners in different parts of the building. Pay special attention to the general appearance of the fastener and the health of the gasket under the cover, keeping water out of the joints. Replace worn fasteners.

MONITORING

Maintain a journal of facade maintenance work. Write down information such as the performed tasks, the time, the facade area involved, who performed the work and what agents were used.



06 MAY, 2016

Ruukki-Colour-coated-steels-Maintenance-instructions
PDF, 600.37 KB



06 MAY, 2016

Ruukki-Maintenance-instructions-powder-coated-facade-claddings
PDF, 602.18 KB

CERTIFICATES & APPROVALS

IDENTIFICATION

A print containing package-specific information such as order, load and package numbers, contact information, content of the package (panel type, dimensions and items) and package weight is attached to the package.

If necessary, panels can also be marked during manufacture with a code specified by the customer. With the code individual panels can be allocated to a specific position in the building.

CONFORMITY WITH STANDARDS AND QUALITY CONTROL

The panels are CE marked products in accordance with the EN 14782 standard for paint coated and powder coated steel panels. The marking is presented on the package label and the attachment to the delivery note.

Quality inspection of the panels is performed in accordance with the EN 14782 standard and the additional requirements by the manufacturer.



06 MAY, 2016

DoP 25PPPAR Pärnu claddings
PDF, 56.68 KB